

## Utah Weekly Pertussis Update

2019 data, through MMWR week ending August 3 (MMWR week 31)

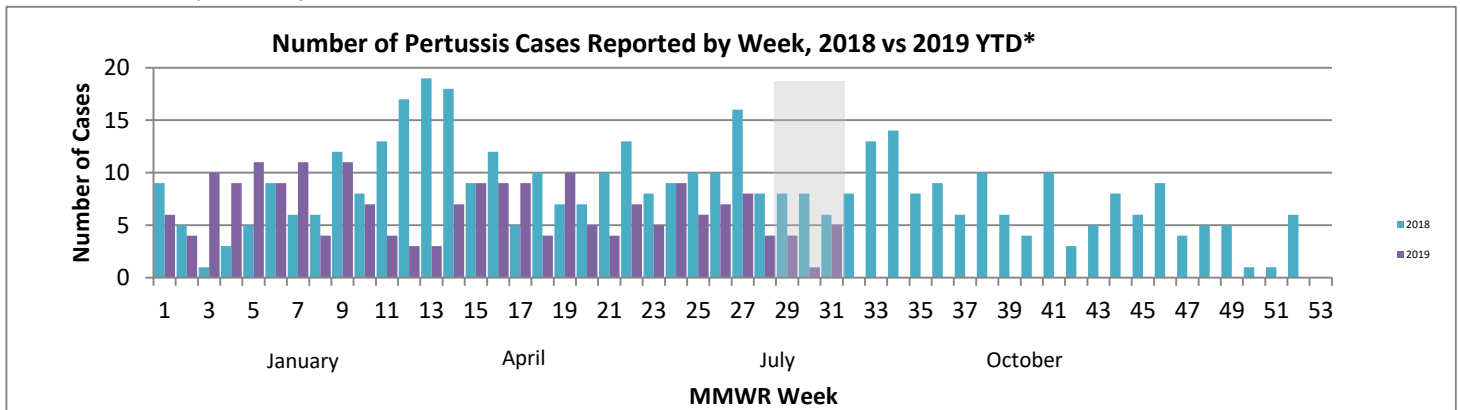
Data presented in this report are based on current data available and will be subject to change weekly.

### Data Summary

Total number of cases reported, 2019 year-to-date (YTD)	205	Utah Incidence rate, 2019 year-to-date (YTD) per 100,000 person-years	11.1
Total number of cases reported 2018	428	Utah Incidence rate, 2018 per 100,000 person-years	14.6
Number of cases reported in past week	5	National Incidence rate*, 2017 per 100,000 person-years.	5.8
Total number of cases reported, through same time period 2018	281	2019 Hospitalizations	4
Age groups with the highest rates	<1 1-4	2019 Cases in infants <1 year	6

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2019 Year-to-Date Incidence Rates, By Age

Age (years)	2019 Cases	2017 population	Rate*
<1	6	51,401	19.6
1-4	29	203,799	23.9
5-14	56	521,331	18.1
15-24	34	495,829	11.5
25-34	17	457,423	6.3
35-44	27	422,547	10.7
45-54	15	317,532	7.9
55-64	10	296,399	5.7
65+	11	335,572	5.5
Unknown	0	-	-
Total	205	3,101,833	11.1

\* Rate is calculated per 100,000 person years.

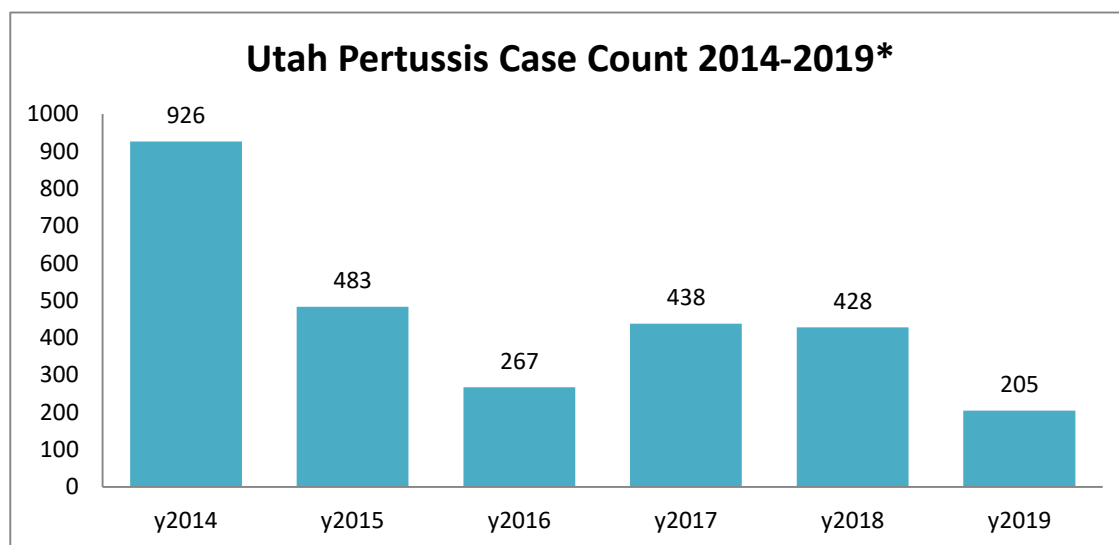
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2019 Year-to-Date

Grade	Age (years)	2019 Cases	2017 Population	Rate*
Preschool	3-4	11	102,181	18.1
Kindergarten	5	4	49,869	13.5
1	6	8	51,269	26.2
2	7	4	52,299	12.9
3	8	2	52,131	6.5
4	9	5	53,612	15.7
5	10	11	53,712	34.4
6	11	5	52,765	15.9
7	12	9	52,359	28.9
8	13	5	51,910	16.2
9	14	3	51,405	9.8
10	15	5	49,974	16.8
11	16	3	49,983	10.1
12	17	6	50,211	20.1

\* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. High incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2014-2019\* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward. 2019 data, through MMWR week ending January 5 (MMWR week 1)

## Incidence of Pertussis by Local Health Department, 2019 YTD

Local Health Department	2019 Cases	Rate*
Bear River	10	9.3
Central Utah	1	2.1
Davis County	8	3.9
Salt Lake County	94	13.9
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	25	17.8
Summit County	1	4.1
Tooele County	3	7.5
TriCounty	0	0.0
Utah County	30	8.3
Wasatch County	1	5.2
Weber-Morgan	32	20.4

\* 2019 data includes pertussis cases reported year to date. 2014-2018 data reflects cases reported during the entire calendar year for each year.

